Services for and Needs of Pregnant Teenagers in Large Cities of the United States, 1979–80

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OF APPROXIMATELY 1,142,000 PREGNANCIES among U.S. teenagers in 1978, 434,000 ended in abortion and 362,000 resulted in births of infants conceived out of wedlock, 192,000 in births of infants conceived following marriage, and the remainder in miscarriages (1). Between 1973 and 1978, the number of teenage pregnancies increased by 13 percent; the rise was steepest among 18–19-year-olds, less steep among 15–17-years-olds, and slight among those under 15 years. In 1978, 18–19-year-olds accounted for 685,000 pregnancies, 15–17-year-olds for 425,000, and those under 15 years for 30,000 (1).

Although the proportion of all teenagers who became pregnant between 1973 and 1978 rose from 10 to 11 percent, the proportion among the sexually active declined from 27 to 23 percent. More than one-fifth of the premarital first pregnancies among teenagers occur within the first month after initiation of sexual intercourse, and half occur in the first 6 months thereafter (1). Of the 1.1 million pregnancies that occurred among teenagers in 1978, 847,000 were unintended, that is, 85 percent of the 749,000 pregnancies among

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unmarried teenagers and 51 percent of the 349,000 pregnancies among married teenagers (1).

Unwed teenage mothers rarely give up their babies for adoption or for care by relatives or friends. Ninetysix percent keep their children with them. About 1.3 million children in the United States are now living with 1.1 million teenage mothers (1).

The consequences of teenage childbearing are serious. The infant mortality rate for babies born of teenage mothers is twice that of babies born to mothers in their twenties. Babies born to teenage mothers are more likely to be of low birth weight. Teenage childbearing interrupts, and may cause termination of, a teenager's education. The income of young teenage mothers is half that of those who first give birth in their twenties. Marriages are disrupted three times more frequently among young teenagers who give birth than among older childbearers. In 1975, about half of the \$9.4 billion invested in the Aid to Families with Dependent Children program went to families in which the mother had given birth as a teenager. Families headed by young mothers are seven times as likely as other families to be poor (1).

Questionnaire Survey 1979–80

Because teenage pregnancy is a serious social, health, educational, and vocational problem for both the mother and her infant, we initiated a series of national surveys on the status of services for, and the needs of, pregnant teenagers in the large cities of the United States. This report is based on the study done in 1979–80, the third in the series (2,3). To collect data for this study, a questionnaire was sent during

Table 1. Responses of large U.S. cities to 1979-80 questionnaire, by population

Population		Respondents						
	Total cities surveyed	Total cities	Departments of education and of health	Education department only	Provided no data			
1 million or more	. 6	6	4	1	1			
750,000–999,999	. 3	3	1	2	0			
500,000-749,999		13	13	0	0			
350,000–499,999		11	10	1	0			
250.000–349.999		15	11	4	0			
175,000–249,999		15	12	2	1			
150.000–174.999		¹ 13	9	2	1			
125,000–174,999		22	15	1	6			
100.000-124.999		² 29	20	3	5			

¹ Includes 1 city in which only the health department responded.

late 1979 and early 1980 to local departments of health and local departments of education in the 153 of pregnant tee cities which, according to Bureau of Census estimates, had a population of 100,000 or more in 1978. Followup re-mailings were done periodically to ensure an adequate response rate. The same questionnaire was used in the 1970, 1976, and 1979–80 surveys except that in

the 1976 and 1978-80 surveys, new questions were added in regard to followup services, school dropouts, and child abuse and neglect.

Questionnaire Responses

The overall response to the 1979-80 questionnaire was 83 percent. The response rate was higher among the larger cities; cities with the smallest populations (under 125,000) had the lowest response rate. In 95 of the 127 cities responding, responses came from both the local department of health and the local department of education or from one of these departments after consultation with the other department; in 16 cities, responses came from only one local department without consultation with the other; 15 other cities that responded to the questionnaire provided no data (table 1).

Special program for pregnant teenagers. Of the 127 cities responding to the 1979–80 questionnaire, 112 answered the question about the provision of a special program for pregnant teenagers, and 90 reported that they provided such a program (table 2). Of the 92 cities providing information on when the special program began, 64 reported that it began in the period 1966–74 and 33 that it began in the period 1969–70. Two cities had initiated their special program for pregnant teenagers in the early 1900s. Only 11 cities reported that they had begun their special program since 1972.

Fifty-three cities provided data on the size of their

² Includes 1 city that reported it had no program.

female populations 15–19 years old and on the number of pregnant teenagers served by the special programs. They reported a total population of 903,214 girls aged 15–19 years. If we use Zelnik and Kantner's findings that 35 percent of girls 15–19 years old in the United States are sexually active (4), an estimated 299,139 females aged 15–19 years in these 53 large cities are sexually active. Yet in these cities, only 9,234 pregnant teenagers were cared for in the special programs in 1979–80 (3.1 percent of those estimated to be at risk of pregnancy).

By far the most common sponsors of special programs were local departments of education—83 cities, followed by local health departments—24 cities (table 3). Maternity and Infant Care Projects were reported as sponsors in seven cities. Voluntary agencies sponsored programs in 28 cities.

Funding for the special programs was reported to be almost entirely governmental—local, State, or Federal (table 3). The most common local sources of funds were city or county schools; fiscal participation

Table 2. Responses of large U.S. cities to question about the provision of special programs for pregnant teenagers, 1979–80 survey, by population

		Provided	spec	special program		
Population	Total respondents	Yes	No	No answer or answer unclear		
1 million or more	 6	5	1	0		
750,000-999,999	 3	3	0	0		
500,000-749,999	 13	11	2	0		
350,000-499,999	 11	11	0	0		
250,000-349,999	 15	12	2	1		
175,000-249,999	 15	10	4	1		
150,000-174,999	 13	10	1	2		
125,000-149,999	 22	11	4	7		
100,000-124,999	 29	17	3	9		

Table 3. Sponsorship and sources of funds and of medical care in special programs for pregnant teenagers, 1979-80 survey

Sponsorship and sources of funds and medical care	Number of cities	Sponsorship and sources of funds and medical care	Number of cities
Sponsorship		Sources of funds—continued	
Official agencies:		Haalib damasimani	•
Education departments	. 83	Health department	
Health departments	. 24	Special education department	
Maternity and Infant Care Projects	. 7	Welfare department	
Social service departments	. 6	Federal	
Health centers	. 3	Title 5 funds (Maternal and Child Health)	
Mental health centers	. 1	Title 20 funds (social services)	
Voluntary agencies:		Education funds	
Florence Crittenton agency	. 9	"Federal" funds (unidentified)	
Medical schools		Title 5 funds (Maternal and Infant Care Projects) .	
Hospitals	_	Title 10 funds (Family Planning)	
YWCA		Title 19 funds (Medicaid)	
March of Dimes	-	Vocational funds	. 2
United Way		Title 5 funds (Children and Youth Projects)	. 1
Other		"Federal health" (unidentified)	. 1
Other	. 0	Other	
Sources of funds		Question not answered	. 21
Local	. 74		
Official agencies		Sources of medical care	
Local education department		Official agencies	
City education department		Health departments	. 31
County education department		Maternity and Infant Care Projects	. 18
County health department		Health centers	. 5
Local health department		Medicaid	. 2
City health department		U.S. Navy	. 2
"Local" (department unidentified)		Other	. 2
"City" (department unidentified)		Voluntary agencies	
		March of Dimes	. 1
"County" (department unidentified)		Planned Parenthood	. 2
Voluntary agencies		HMOs (health maintenance organizations)	. 2
United Way		Other	
Florence Crittenton agency		Miscellaneous	
March of Dimes		Medical schools	. 11
Children's Home Society		Hospitals	
Booth (Salvation Army) programs		Clinics	
State		Private physicians	
Education department		Titato physicians	. 20
Julio (apparationa dindonation)	•		

by local health departments was relatively small. State funds also came predominantly from departments of education. Federal support came from a variety of sources—funding under Title 5 of the Social Security Act (Maternal and Child Health), under Title 20 of the Social Security Act (Social Services), and under Title 10 of the Public Health Service Act (Family Planning). Altogether, 63 cities reported that education funds were a source of support of the special programs, 30 reported that health funds helped support the program, and 11 reported welfare or social service funds as sources of support (table 3).

Fifty-four cities reported that they provided a special program of medical care for pregnant teenagers; 42 reported that they did not.

Medical care. Medical care for the pregnant teenagers in the special programs was provided by hospitals, private physicians, Maternity and Infant Care Projects, health departments, clinics, and medical schools. The sources of medical care reported were primarily those of organized community programs (table 3).

The medical care providers most frequently used by pregnant teenagers were obstetricians (65 cities) and pediatricians (47 cities). Nine cities reported that nurse midwives were providing the medical care for pregnant teenagers. The babies of the pregnant teenagers were typically delivered in a hospital and usually by an obstetrician. Medical care for the pregnant teenagers was provided in clinics, hospitals, private physicians' offices, health departments, and Maternity and Infant Care Projects (table 4). Medical care for infants was provided in private physicians' offices, health departments, clinics, hospitals, well children conferences, and Children and Youth Projects.

Other services provided. The types of services most frequently provided by the special programs were coun-

seling (92 cities), special education (84), nutrition (84), family life education (84), and sex education (81). As table 5 shows, the least frequent types provided were treatment of drug abuse (13 cities), alcoholism (16), abortion (17), juvenile delinquency (18), legal advice (20), and maternity homes (20).

Pregnancy testing for teenagers was reportedly provided in 89 cities. The agencies most frequently providing this testing were health departments (53 cities), Planned Parenthood (43), hospitals (12), and clinics (9). Nine cities reported that pregnancy testing services were not freely available.

Ninety-two cities reported that contraceptive services were available for teenagers. The contraceptives were available from the following sources:

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Planned Parenthood	57
Health department	51
Hospital	11
Clinic	8
Private physician	6
Family planning clinics	6
Maternity and Infant Care Project	
Health centers	
Miscellaneous	3

The cities reported some restrictions on contraceptive services to teenagers: 14 required parental consent, 11 had age restrictions, 9 required payment of a fee, 6 required a financial eligibility test, 4 had legal restrictions, in 4 cities the service was unavailable, 3 provided the services only to teenagers who had a previous pregnancy, and 2 provided the services only to married teenagers.

Fifty-five cities reported that abortion services were freely available for teenagers, and 28 cities reported that they were not. The restrictions on these services included length of gestation, 38 cities; legal, 23 cities; funds, 15 cities; unavailability of the services, 13 cities; parental consent, 7; religion, 6; available only to inpatients, 4; age of patient, 2. Abortion services were provided by clinics, private physicians, and hospitals, in clinics and hospitals. In 64 cities, these services were paid for by patients and in 26 cities, by Medicaid.

Two-thirds of the cities (84 of 127) reported providing a special education program for pregnant teenagers; 11 reported that they did not. When this was offered, it was more frequently provided in high school (96 cities) or junior high school (91 cities) than in elementary school (55 cities). Special education was most frequently provided in special schools (76 cities); less frequently in special classes (31 cities) or in home instruction (49 cities). It usually included family life education, special health classes, and sex education. It

less frequently included premarital or marital counseling.

Only nine cities reported that there was a waiting list for the special education program. In the nine cities, the duration of the wait ranged from a few weeks to as long as 9 months. The number on the waiting lists varied from 6 to 150.

Ninety-six cities reported providing social services for pregnant teenagers, and six reported that they did not. Social services were most frequently provided by welfare, education, and health departments, by Maternity and Infant Care Projects, and by voluntary agencies. The social services most frequently available were counseling (88 cities), adoption (77), referral for job training or placement (69), clothing (69), and day care (69). Services less frequently available were housing, help for the father, foster home placement, and transportation.

Ninety-eight cities reported that nutrition services were available for pregnant teenagers, and four cities reported they were not available. The nutrition services most frequently available were education (92 cities); extra food (65); special school lunch (59) or breakfast (40) or food stamps (47); and WIC (Women, Infants, and Children nutrition program).

Eighty-five cities reported that nutrition services were available for infants, and 17 reported that they were not. The nutrition services most frequently available were education of the mothers about infant feed-

Table 4. Number of cities using various sources and sites for medical care of pregnant teenagers and infants, 1979–80 survey

	Pregnant				
Source or site	Source of care	Site of care	Source of care of infants		
Health departments	. 31	25	48		
Private physicians		42	53		
Hospitals		36	37		
Maternity and Infant Care					
Projects	. 18	11	4		
Clinics		30	21		
Medical schools	. 11	3	3		
Health centers	. 5	7	8		
HMOs (health maintenance					
organizations)	. 2	1	1		
Children and Youth Projects	. 2	1	11		
U.S. Navy		3	1		
Planned Parenthood		0	0		
Midwives		Ō	Ō		
Schools	. 1	4	Ō		
Florence Crittenton agency.		2	Ō		
Pediatricians		Ō	7		
Obstetricians	. 0	Ö	4		
General practitioners		Ö	2		
Medical residents		Ö	2		
Miscellaneous		1	2		

Table 5. Number of cities providing special services in their programs for pregnant teenagers, by population, 1979-80 survey

	Cities with populations of—									
	1 million or more	750,000– 999,999	500,000- 749,999	350,000- 499,999	250,000– 349,999	175,000 499,999	150,000- 174,999	125,000- 149,999	100,000- 124,999	Total with service
Counseling	4	3	11	11	13	11	9	11	19	92
Special education		3	10	9	13	8	10	10	17	84
Nutrition programs		3	12	9	12	9	8	11	16	84
Family life education	5	2	9	10	13	9	10	11	15	84
Sex education		1	11	10	12	9	9	11	13	81
Special health classes	3	3	9	9	11	8	10	10	16	79
Social services	. 5	1	11	10	12	10	6	10	13	78
Home visiting		1	10	9	11	7	9	10	12	73
Vocational assistance		3	7	7	10	8	7	7	12	65
Interdisciplinary staff	. 4	1	10	8	11	7	6	5	11	63
Contraception		1	8	9	11	3	4	7	10	53
Special medical care		1	9	9	8	5	3	7	8	52
Pregnancy testing		1	8	7	8	7	3	6	3	44
Day care of infants		Ó	4	4	9	5	2	3	7	35
Adoption		1	4	4	7	4	2	4	8	34
Special work with fathers		2	4	6	5	4	1	5	4	34
Psychiatric service		1	4	7	7	3	1	3	5	33
Truancy		0	5	4	4	1	3	4	4	25
Maternity homes		1	3	2	5	2	2	2	2	20
Legal advice		Ó	3	3	3	1	3	2	5	20
Juvenile delinquency		Ō	5	2	1	1	2	3	4	18
Abortion		ì	3	1	3	1	1	2	5	17
Treatment for alcoholism	Ö	1	4	1	2	1	1	2	4	16
Treatment for drug abuse		1	3	1	2	i	0	1	4	13
Question not answered		Ó	1	Ó	2	3	Ŏ	4	1	11

ing (76 cities), extra foods (65), and food stamps (46). More cities (98) reported the availability of special nutrition services for the pregnant teenagers than for their infants (85).

Sixty-two cities reported that they provided followup services for the mothers, and 46 reported that they did not. The followup service most frequently provided was family planning or postpartum care. The duration of followup of the mothers varied from weekly home visits to a 3-year period of surveillance. Fifty-one cities reported providing followup services for the infants, and 52 reported that they did not. The duration of followup of infants varied from weekly home visits to a 6-year period of surveillance.

There were 2,248 teenagers who dropped out of the special programs following the pregnancy and 1,107 teenagers who dropped out during the pregnancy. The most frequent reasons given for the dropouts were lack of motivation, lack of child care, mobility, health reasons, reentry into original school, and transportation difficulties.

Fourteen cities reported that child abuse and neglect were common problems affecting the babies born to the teenage mothers in the special programs; 63 cities reported that these were not problems.

Unmet needs of pregnant teenagers. The question-

naire contained two items relating to unmet needs in the care of pregnant teenagers and their infants. The unmet needs reported by the cities are summarized in table 6. Day care or child care was the most commonly reported unmet need for pregnant teenagers under 15 and 15–19 years of age, as well as for their infants. The second most commonly reported need for both age groups of pregnant teenagers was for funds. For infants, the second most commonly reported need was for parenting.

Discussion

Comparison of the results of the 1979-80 and the 1976 surveys revealed that few large cities (only five) had added a special program for teenage pregnant girls and their infants in the interim 3-year period, even though the number of teenage pregnant girls cared for in the special programs continued to be small compared with the total number of teenagers in these large cities who became pregnant each year. These consistent observations that very limited services are available for teenage pregnant girls and their infants should lead to studies of the reasons that the cities are unable to expand and extend these services. Is the primary reason lack of funds for the services needed? Or is the inability due to attitudes of parents, school board members, school administrators, legislators, and teachers?

Funds for special programs for pregnant teenagers come from a combination of local, State, and Federal sources and from local voluntary agencies. The most common sources of funds reported in the survey were local, State, and Federal schools and departments of education. In 1978 the Adolescent Pregnancy and Prevention Act made special funds available to official and voluntary education, health, welfare, and other community agencies. This legislation expired in September 1981 but was replaced by the new Adolescent Family Life bill, which has an appropriation of \$16 million.

The 1979–80 survey showed that social services, health education, and vocational, health, and educational services for pregnant teenagers need to be improved and extended, as do also day care and social and health services for their infants. The survey pointed up unmet needs in the care of pregnant teenagers and their infants in large U.S. cities.

Contraceptive services, along with family life education and sex education, should be given high priority for sexually active teenagers; yet nine other services are provided more frequently than contraceptives according to the survey (table 6). Demonstration programs need to be established to test and evaluate methods directed at reducing the incidence of teenage pregnancy in the United States. More efforts at family life education also need to be tried and evaluated. Furthermore, such education should be combined with and evaluated with counseling and family planning services.

Followup services for both the pregnant teenager and her infant need to be improved. Because both are at high risk, continued efforts are needed with both mother and infant. For the mother, that means providing medical and health care, social services, family planning, and assistance in continuing her education. combined with planning for her future. For the baby, that means providing day care, health supervision and medical care, social and nutrition services, and so forth. Organized community services should be mobilized for this high-risk population of teenage mothers and their children and continued until they are able to revert to a "normal risk" level. The problem of dropouts from the special programs for pregnant teenagers needs more attention. Also, to focus on the pregnant teenager alone will continue to be ineffective until her male partner and her family are included.

Summary

The third in a series of national surveys of the services for and needs of pregnant teenagers and their infants in large cities of the United States was conducted in

Table 6. Number of cities reporting that various needs of pregnant teenagers and their infants were unmet, 1979–80 survey

	Unmet needs of			
Service	Under 15 years	15–19 years	Unmet needs of Infants	
Day care and child care	. 44	39	52	
Family planning	. 18	15	1	
Sex education		12	3	
Transportation	. 21	14	9	
Parenting education	. 19	20	30	
Continuing education	. 22	22	6	
Counseling	. 20	16	4	
Funds		23	8	
Nutrition	. 11	6	13	
Prenatal care	. 10	5	1	
Health and medical				
services	. 20	13		
Family life education	. 11	10	3	
Infant care	. 8	7	8	
Involvement of father .	. 8	13	1	
Followup	. 8	5	3	
Health education	. 5	7		
Abortion	. 4	5		
Baby sitting			5	
Job and vocational				
assistance	. 8	31	4	
Housing	. 11	16	9	
Social services	. 4	5	8	
Health and medical care			20	
Miscellaneous	. 28	32	21	

1979–80. Only five of these cities were found to have established a new program for pregnant teenagers since the 1976 survey. Major unmet needs continued to exist in health supervision and medical care, education, social services, vocational assistance, financial aid, and day care for infants, as well as in family life education, family planning, and abortion services. The 1979–80 survey provides baseline data on the status of the health, social, and educational care of pregnant teenagers and their infants in large U.S. cities in the period before large reductions in Federal support for this population group had been effected.

References

- 1. Teenage pregnancy: the problem that hasn't gone away. Alan Guttmacher Institute, New York, 1981.
- Wallace, H. M., Gold, E. M., and Oglesby, A. C.: A study
 of services and needs of teenage pregnant girls in the large
 cities of the United States. Am J Public Health 63: 5-16,
 January 1973.
- Goldstein, H., and Wallace, H. M.: Services for and needs of pregnant teenagers in large cities of the United States, 1976. Public Health Rep 93: 46-54, January-February 1978.
- Zelnik, M., and Kantner, J. F.: Sexual and contraceptive experience of young unmarried women in the United States, 1976 and 1971. Fam Plan Perspect 9: 55-71, March-April 1977.